

MODEL
MR - TCC2 **DISPLAY & THERMOCOUPLE 2OUTPUT CONVERTER**



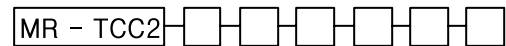
This is a converter used for converting the thermocouple sensor as a temperature sensor to DC signal. With built-in noise removal filter, transfers correct signal, and precision isolation circuits enable perfect signal transfer not affected by withstand insulation voltage, transfer speed, noise, etc.

본 변환기는 온도 SENSOR인 THERMOCOUPLE SENSOR를 직류신호로 변환하는 목적으로 사용되는 변환기입니다. ISOLATION 회로를 채용하여 절연내압, 전송속도, NOISE등의 영향없는 완벽한 신호전달을 가능하게 합니다.

■ **DISPLAY (OPTION)**

Type : 3 digit FND
Display font : red super bright
Display function : input or output or percent(%)
Display error : 1digit(LSB).

■ **MODEL & SPECIFICATION CODE**



■ **FEATURES**

Small size(mm) : 83(H), 51(W), 102(D).
Isolation : input to output to power supply.
Power supply : AC or DC supply.
Wiring : terminal socket wiring.
Case & color : black ABS plastic case.
Weight : about 400g

■ **INPUT SIGNAL SPECIFICATION**

Input signal : thermo couple sensor(R, K, E, T, B, J, S type).
Input range : -200 ~ 1700°C.
Input impedance : 1Mohm min.
Cold junction temperature range : 0 - 100°C.

■ **OUTPUT SIGNAL SPECIFICATION**

Output voltage signal : 12VDC max.
Output voltage impedance : 2Kohm min.
Output voltage noise : 10mV p-p max.
Output current signal : 30mADC max.
Output load resistance : 750ohm max.
Output current noise(250ohm load) : 10mV p-p.

OUTPUT	IMPEDANCE	OUTPUT	LOAD - R
0 - 1VDC	> 1Kohm	0 - 1mA	< 15Kohm
0 - 5VDC	> 2Kohm	0 - 20mA	< 750ohm
1 - 5VDC	> 2Kohm	1 - 5mA	< 3Kohm
0 - 10VDC	> 4Kohm	4 - 20mA	< 750ohm

■ **GENERAL SPECIFICATION**

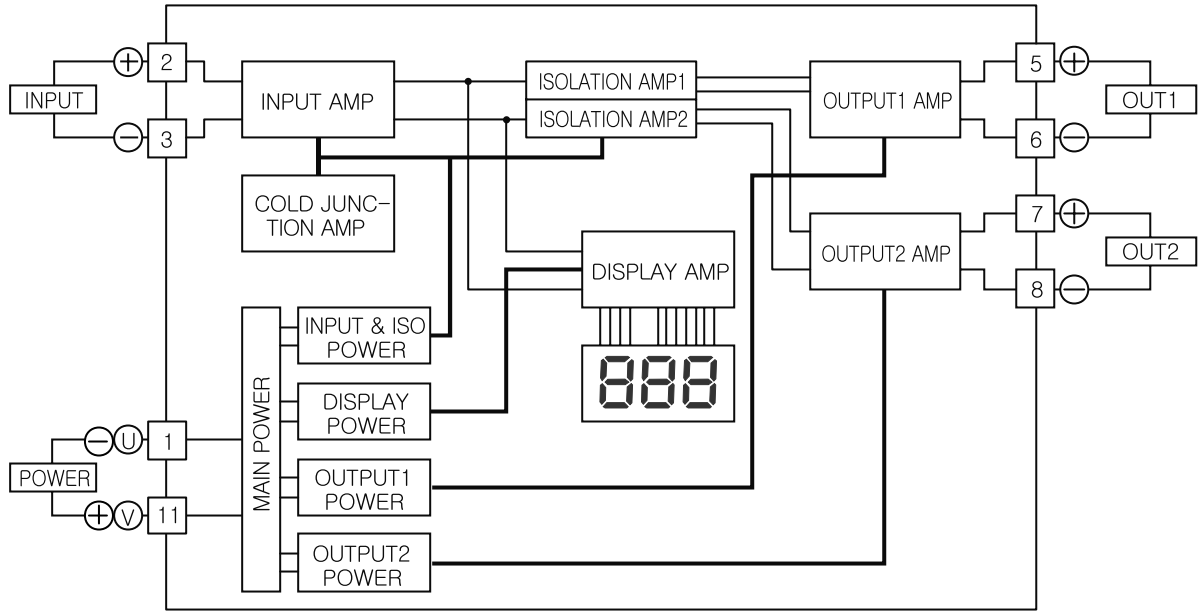
Operating ambient temperature : 0 - 50°C.
Non operating ambient temperature : -20 ~ 80°C.
Temperature coefficient : 0.015%/°C.
Operating ambient humidity : 90% RH max.(non condensing)
Insulation resistance : greater than 100Mohm with 500VDC.
Dielectric strength : 1500VAC @ 1minute
(input to out1 to out2 to power).
Adjustment range : 20% (zero & span) min.
Conversion accuracy : 0.15% max.
Response time : 0 - 90%(0.5sec).
Burnout circuit : upscale(standard).
Linearity : 0.3% max.

- MODEL
- INPUT TYPE
 - 1 : R type
 - 2 : K(CA) type
 - 3 : E(CRC) type.
 - 4 : T(CC) type.
 - 5 : B(RH) type
 - 6 : J(IC) type
 - 7 : S type
 - 8 : Specify type
- INPUT RANGE
 - 1 : 0 - 100°C
 - 2 : 0 - 200°C
 - 3 : 0 - 300°C
 - 4 : 0 - 500°C
 - 5 : 0 - 800°C
 - 6 : 0 - 1000°C
 - 7 : 0 - 1200°C
 - 8 : 0 - 1600°C
 - 9 : Specify range
- OUTPUT SIGNAL1
 - 1 : 0 - 1mADC
 - 2 : 0 - 20mADC
 - 3 : 1 - 5mADC
 - 4 : 4 - 20mADC
 - 5 : 0 - 1VDC
 - 6 : 0 - 5VDC
 - 7 : 1 - 5VDC
 - 8 : 0 - 10VDC
 - 9 : Specify signal
- OUTPUT SIGNAL2
 - 1 : 0 - 1mADC
 - 2 : 0 - 20mADC
 - 3 : 1 - 5mADC
 - 4 : 4 - 20mADC
 - 5 : 0 - 1VDC
 - 6 : 0 - 5VDC
 - 7 : 1 - 5VDC
 - 8 : 0 - 10VDC
 - 9 : Specify signal
- POWER SUPPLY
 - 1 : 110VAC/50, 60Hz
 - 2 : 220VAC/50, 60Hz
 - 3 : 12VDC/0.4ADC(Option)
 - 4 : 24VDC/0.2ADC(Option)
- DISPLAY SIGNAL
 - 1 : Input signal
 - 2 : Output signal
 - 3 : Percent(%)

DISPLAY & THERMOCOUPLE 2OUTPUT CONVERTER

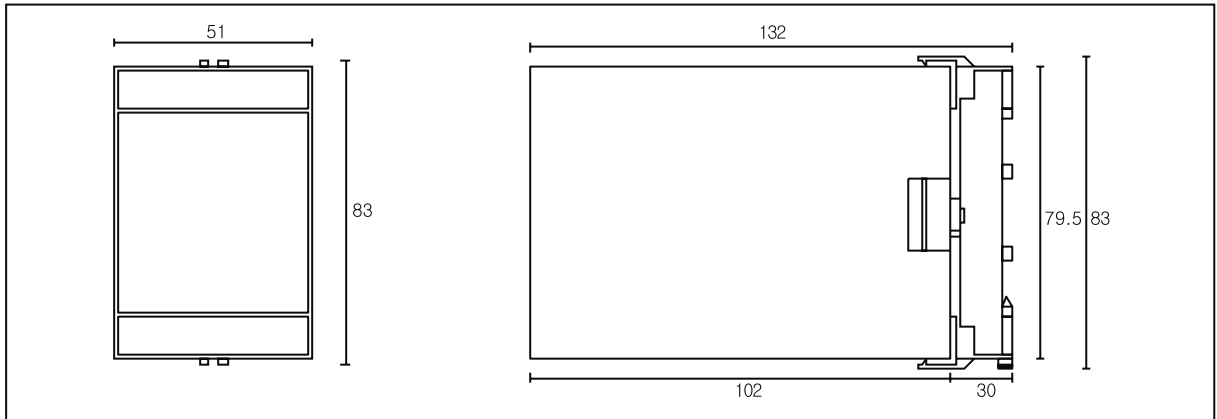
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■ BLOCK DIAGRAM & PIN CONNECTION

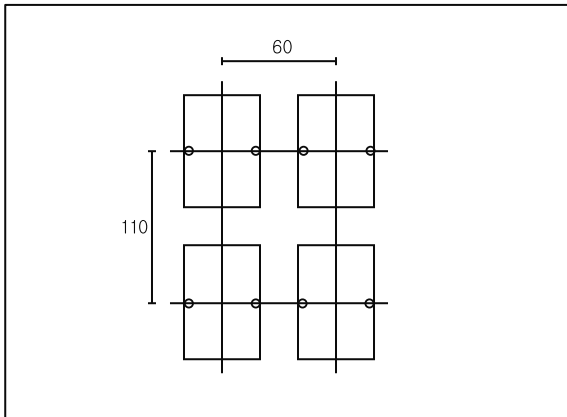


■ EXTERNAL DIMENSION, TERMINAL ARRANGEMENT & MOUNTING SPACE

DIMENSION'S (mm)



MOUNTING SPACE (mm)



SOCKET DIMENSION'S (mm) & TERMINAL ARRANGEMENT

